

CS3810 Fall 2017 HW8 - Extra Credit  
Due Friday, Dec 8

Spatial Geographic Information Systems  
GIS on top of Postgres

Penn State has a great course on Spatial Database Systems. Take a look here:  
<https://www.e-education.psu.edu/spatialdb/13.html>

Yes, it's a graduate course, but if you're interested, there's an application that integrates with Postgres.  
If you start with the Checklist to install PostGIS & QGIS then work on the following sections of the course:

- Introduction to Spatial Select Queries
- PostGIS Geometry Types
- Viewing Data in QGIS
- Project 3: Mapping the class roster

You may need to install a different version of Postgres, as linked to in the checklist. Try to install PostGIS first and if that doesn't work, install the version on the Checklist page.

The data files are also linked on the Checklist page.

For Project 3, use the small data file provided in the lesson and add your name and local zip code. Then do the 8 steps in the project. Or as many as you have time to complete.

**To Do:**

Since everyone will be using the same basic data files and the same instructions within the lesson, the results should be very similar.

- 1) Create a new repo in your github named HW8
- 2) All the code (SQL and anything else) along with any special instructions needed to create the system and/or run it.